

Atom Elm Bonded To	
1	C 2
2	C 1,3,4
3	O 2
4	C 2,5,6,7
5	C 4
6	C 4
7	C 4

Simplified Connection Table

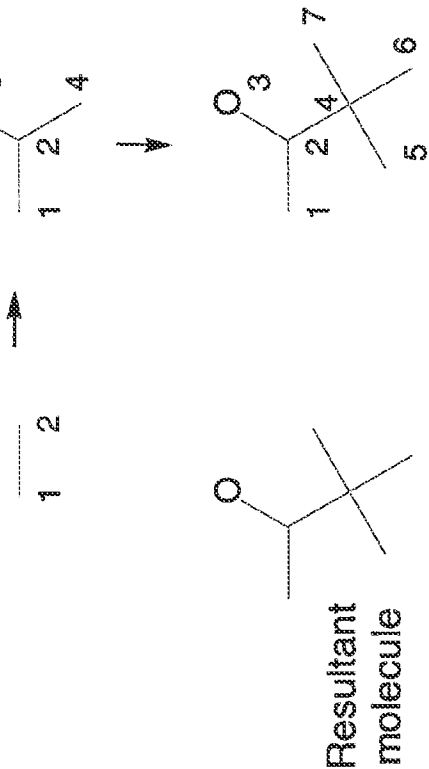
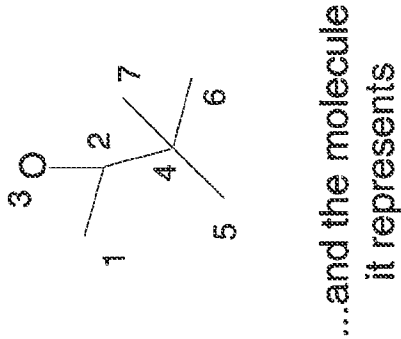


FIG. 1A
(Prior Art)

FIG. 1B
(Prior Art)

FIG. 1C

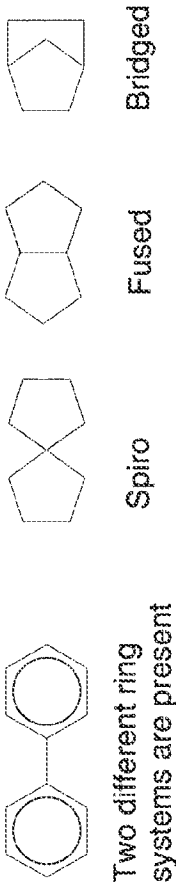


FIG. 2
(Prior Art)

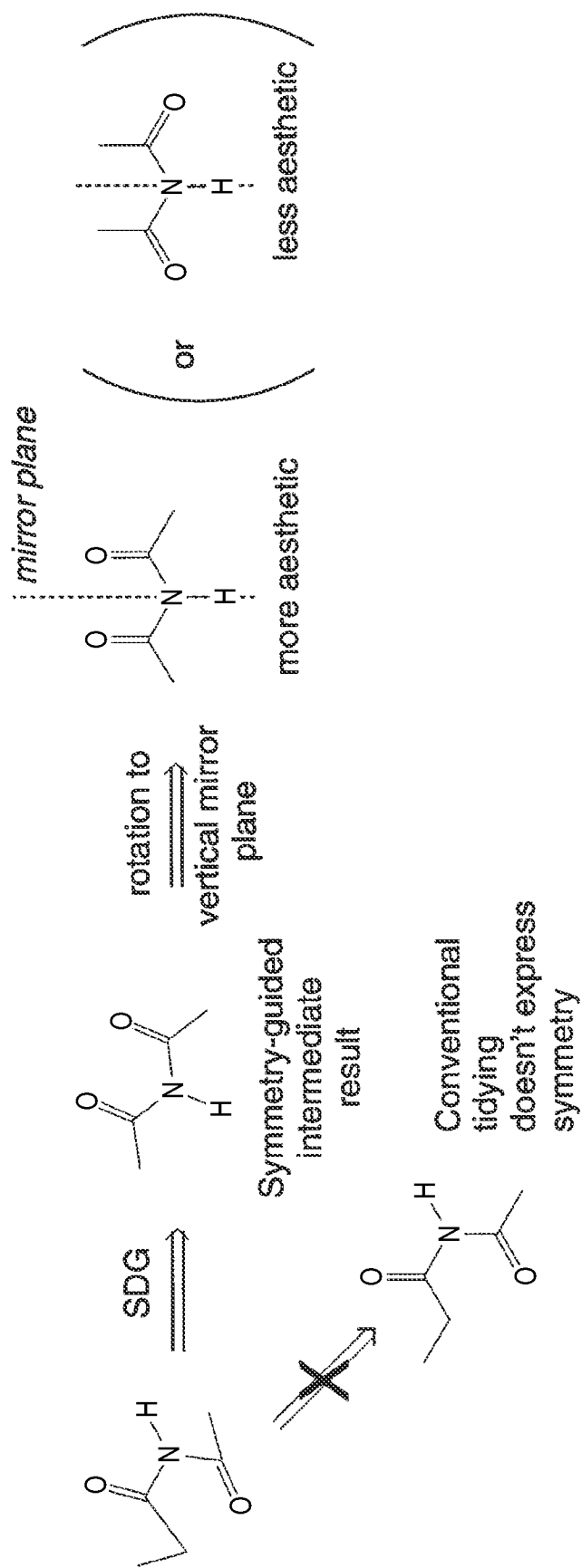


FIG. 3

3/13

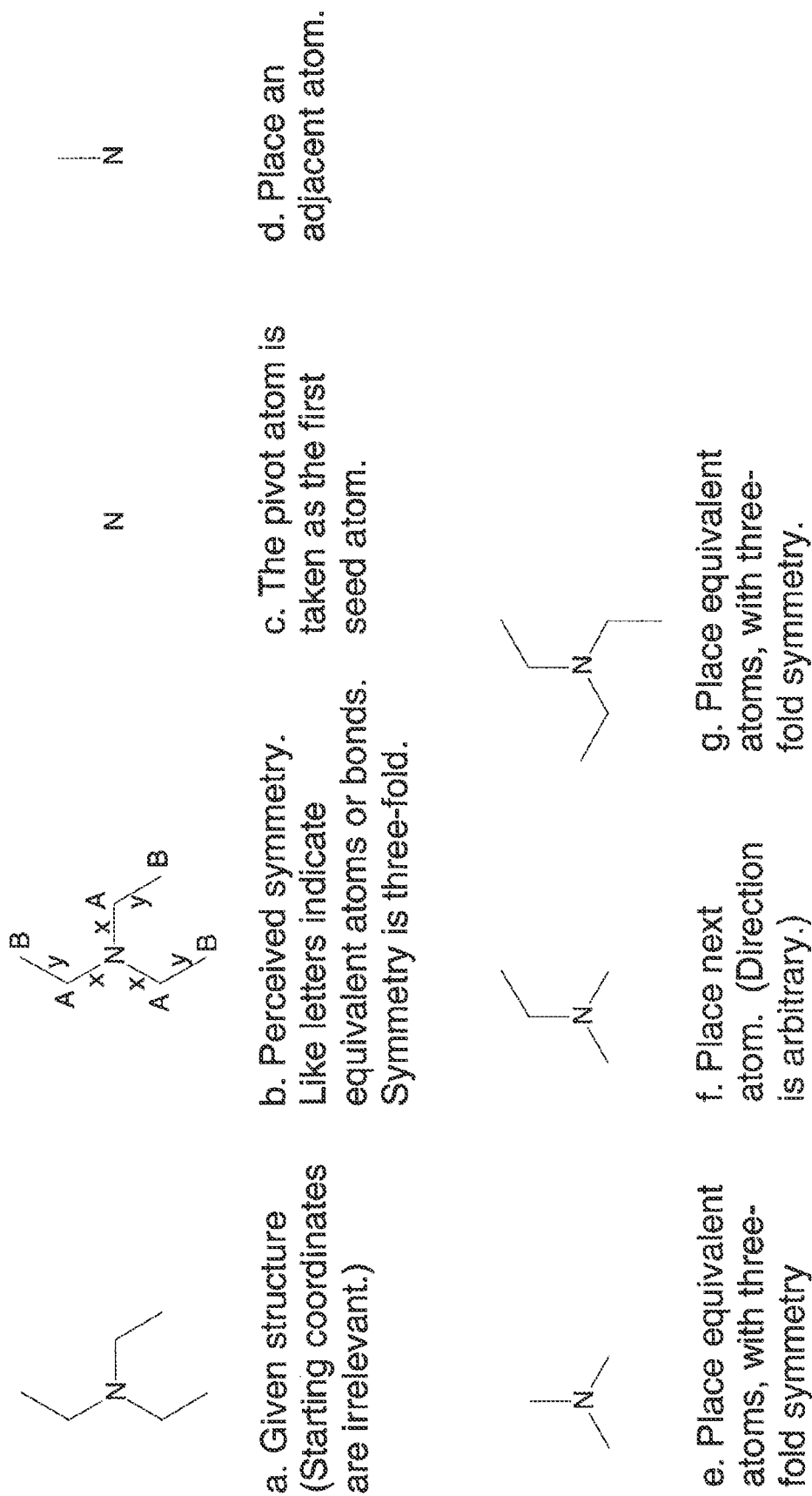


FIG. 4

4/13

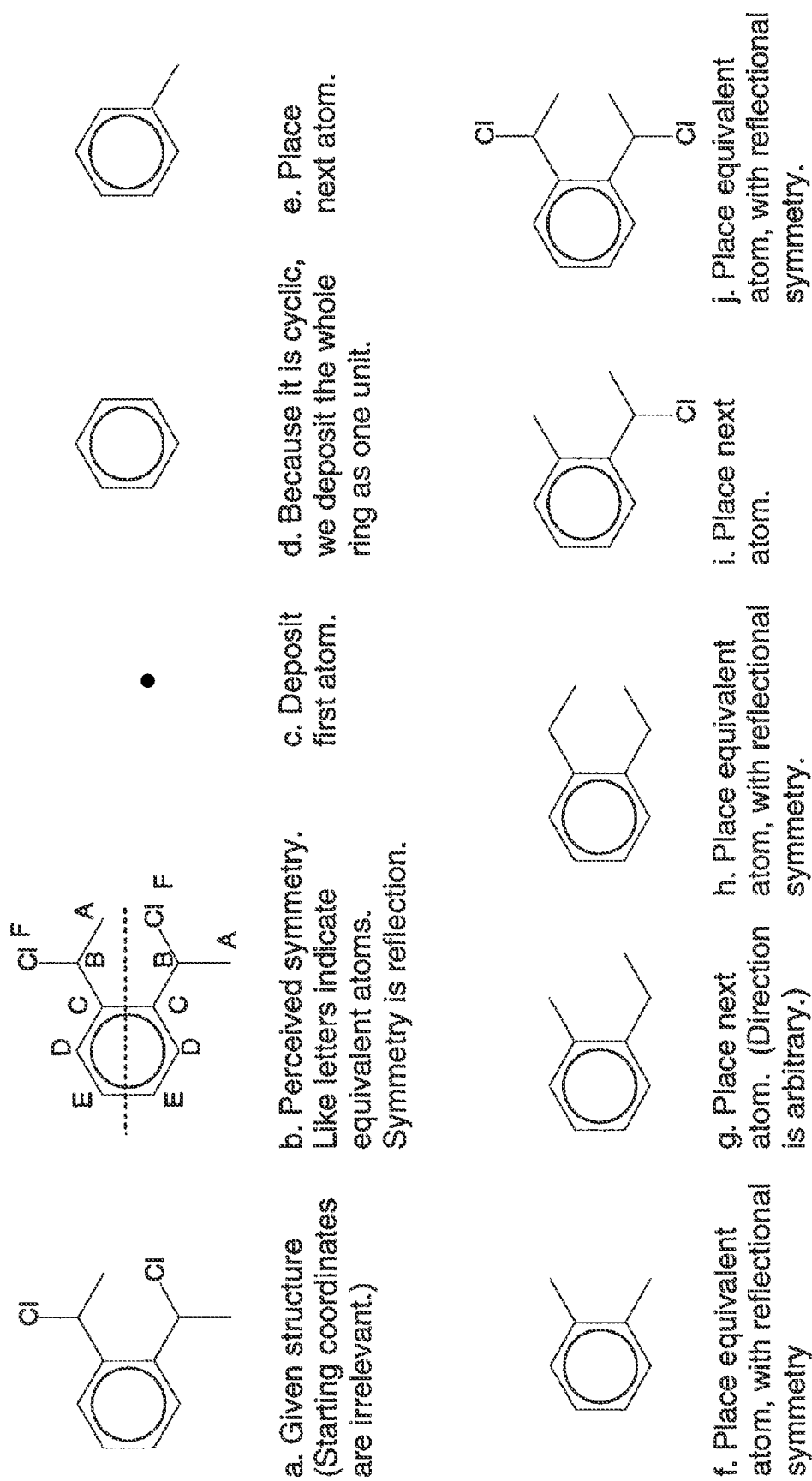
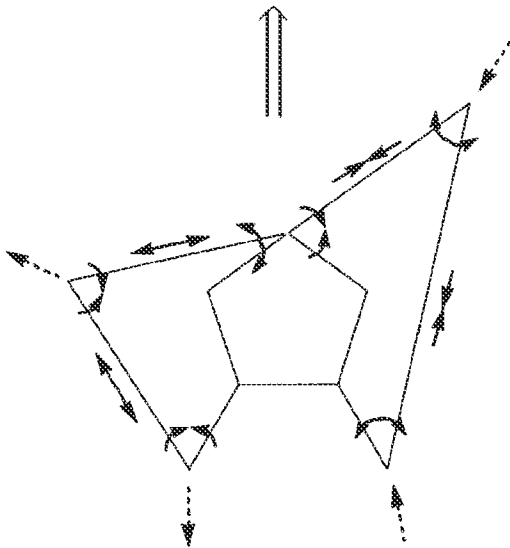
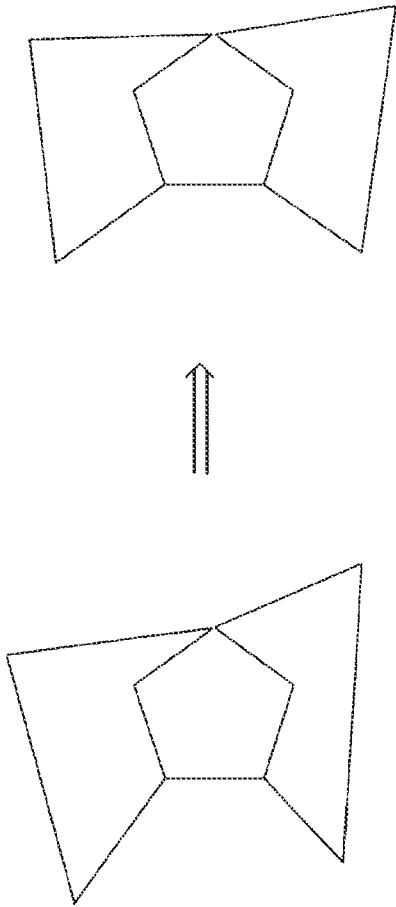
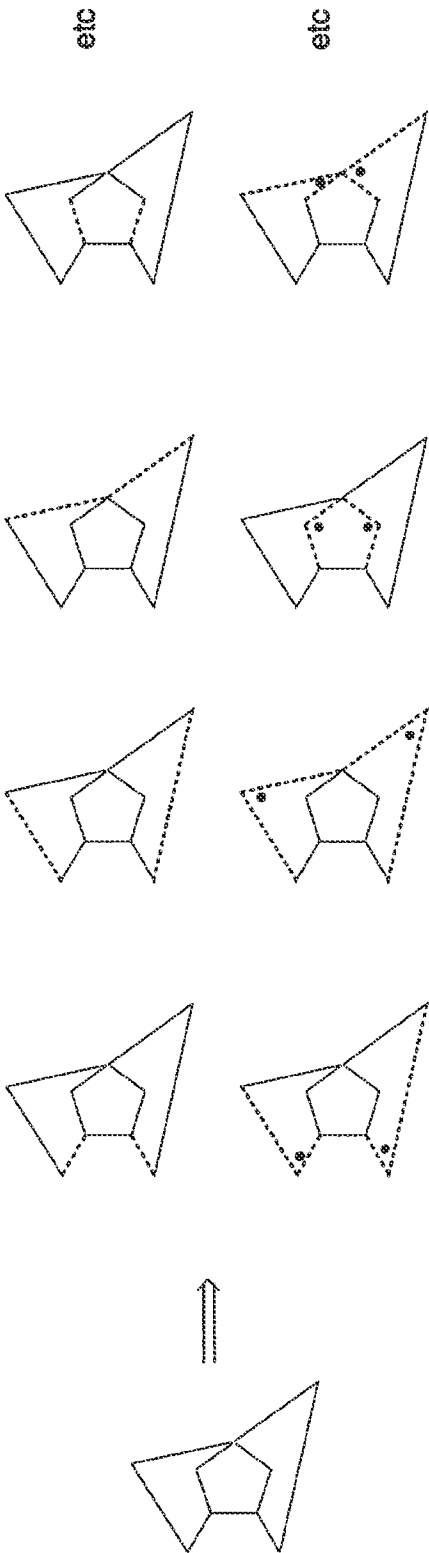


FIG. 5



6/13

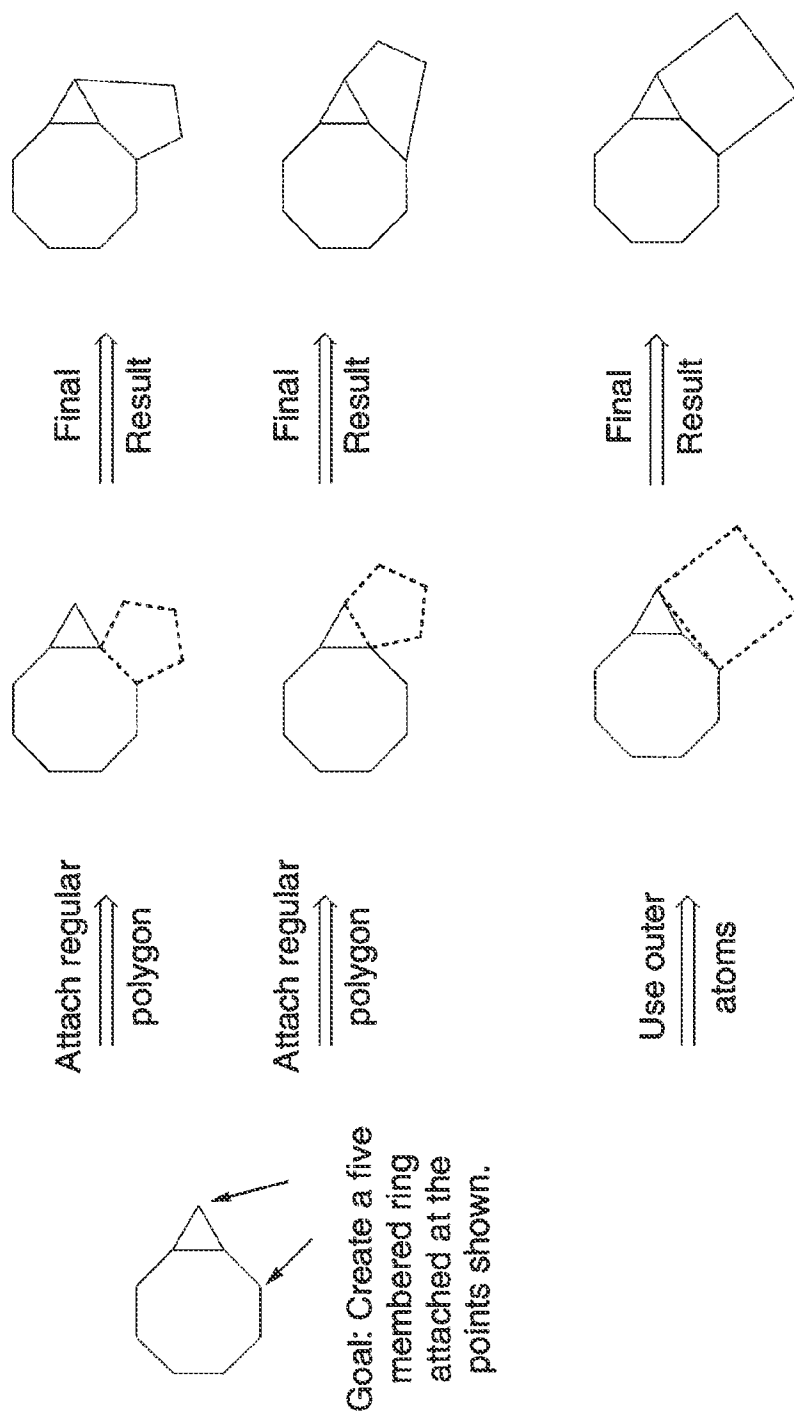


FIG. 8

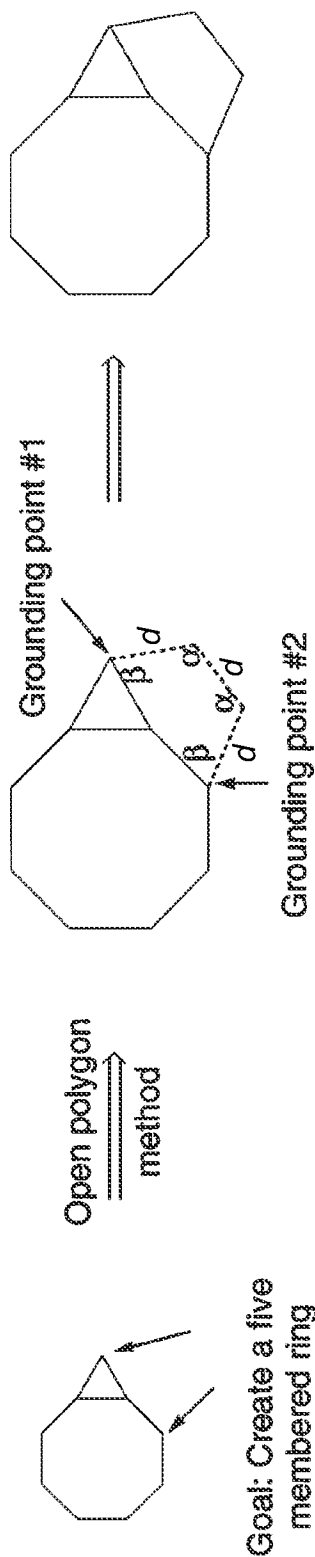


FIG. 9

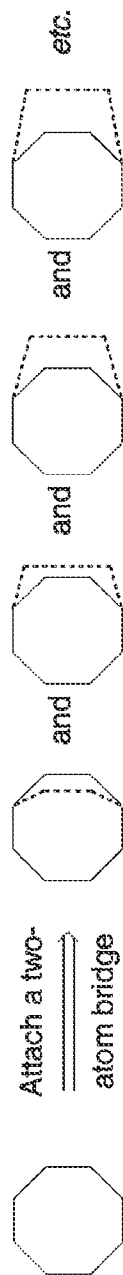
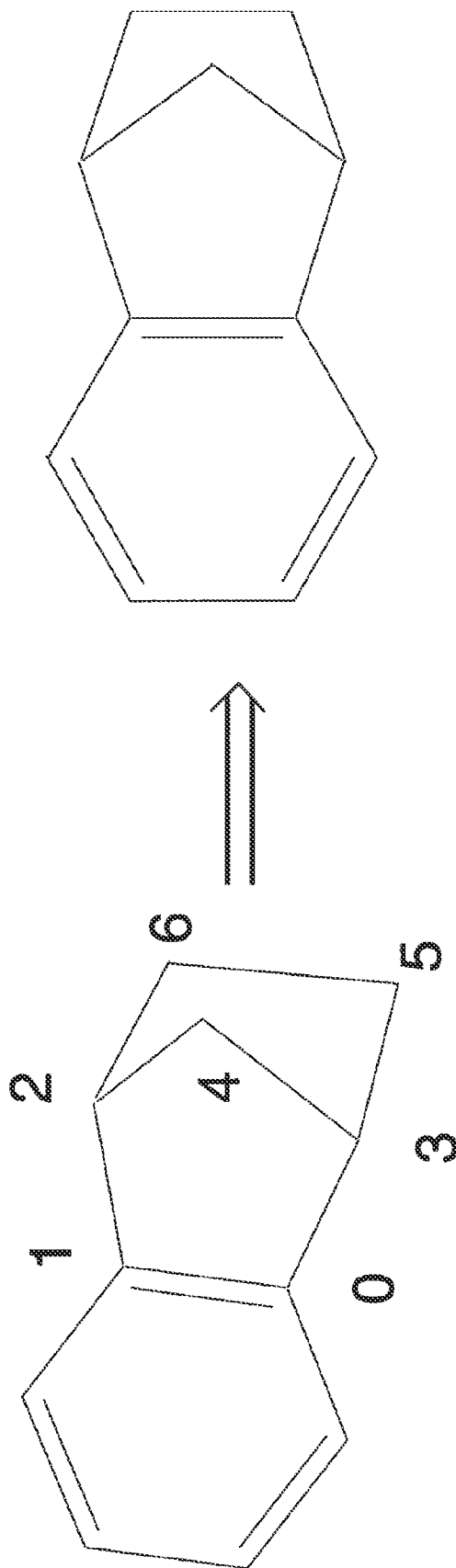


FIG. 10

8/13

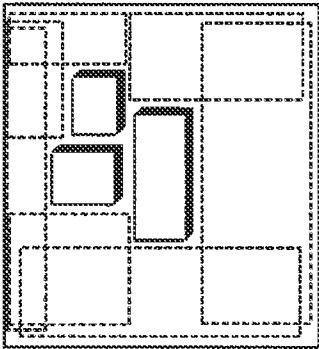


```

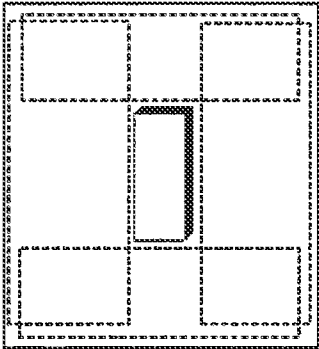
-----Enter RD_AttachPeeledBridge [3]
Attaching peeled bridge at atoms 2 (CW) and 3 (CCW)
Rating for bd len scale 1.0 is 198.294 (= congest[ 178.294] + BdLen[0.00] + bdAng[ 20 (bdAng=125)])
Rating for bd len scale 0.5 is 313.185 (= congest[ 45.185] + BdLen[40.00] + bdAng[228 (bdAng=177)])
Rating for bd len scale 0.7 is 291.643 (= congest[ 179.643] + BdLen[24.00] + bdAng[ 88 (bdAng=142)])
Rating for bd len scale 0.9 is 242.107 (= congest[ 178.107] + BdLen[8.00] + bdAng[ 56 (bdAng=134)])
Rating for bd len scale 1.1 is 93.917 (= congest[ 85.917] + BdLen[8.00] + bdAng[ 0 (bdAng=119)])
Rating for bd len scale 1.3 is 56.154 (= congest[ 32.154] + BdLen[24.00] + bdAng[ 0 (bdAng=109)])
Rating for bd len scale 1.5 is 61.044 (= congest[ 21.044] + BdLen[40.00] + bdAng[ 0 (bdAng=103)])
Rating for bd len scale 1.7 is 72.576 (= congest[ 16.576] + BdLen[56.00] + bdAng[ 0 (bdAng=98)])
Rating for bd len scale 1.9 is 86.400 (= congest[ 14.400] + BdLen[72.00] + bdAng[ 0 (bdAng=94)])
Ring 1: Best bridge scale factor = 1.30 (rating = 56.154)
Irregular polygon. (numAtsToDraw=4; RINGSIZ=5; aOuter_CW=2; _CCW=3)
-----Exit RD_AttachPeeledBridge

```

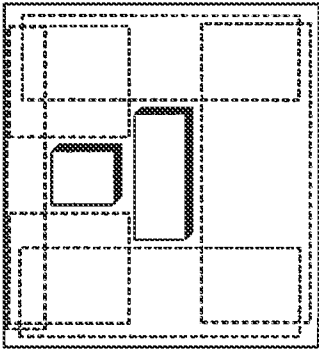
FIG. 11



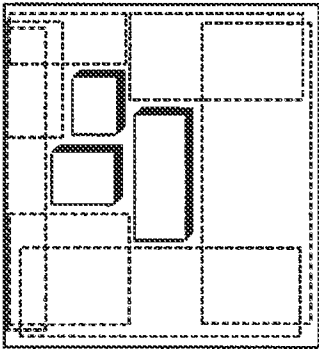
a. Initial free rectangle



b. After imprinting the first box, there are four free rectangles.



c. After imprinting the second box, there are seven free rectangles. (Translation step not included for clarity.)



d. After imprinting the third box, there are eight free rectangles. (Translation step not included for clarity.)

FIG. 12

10/13

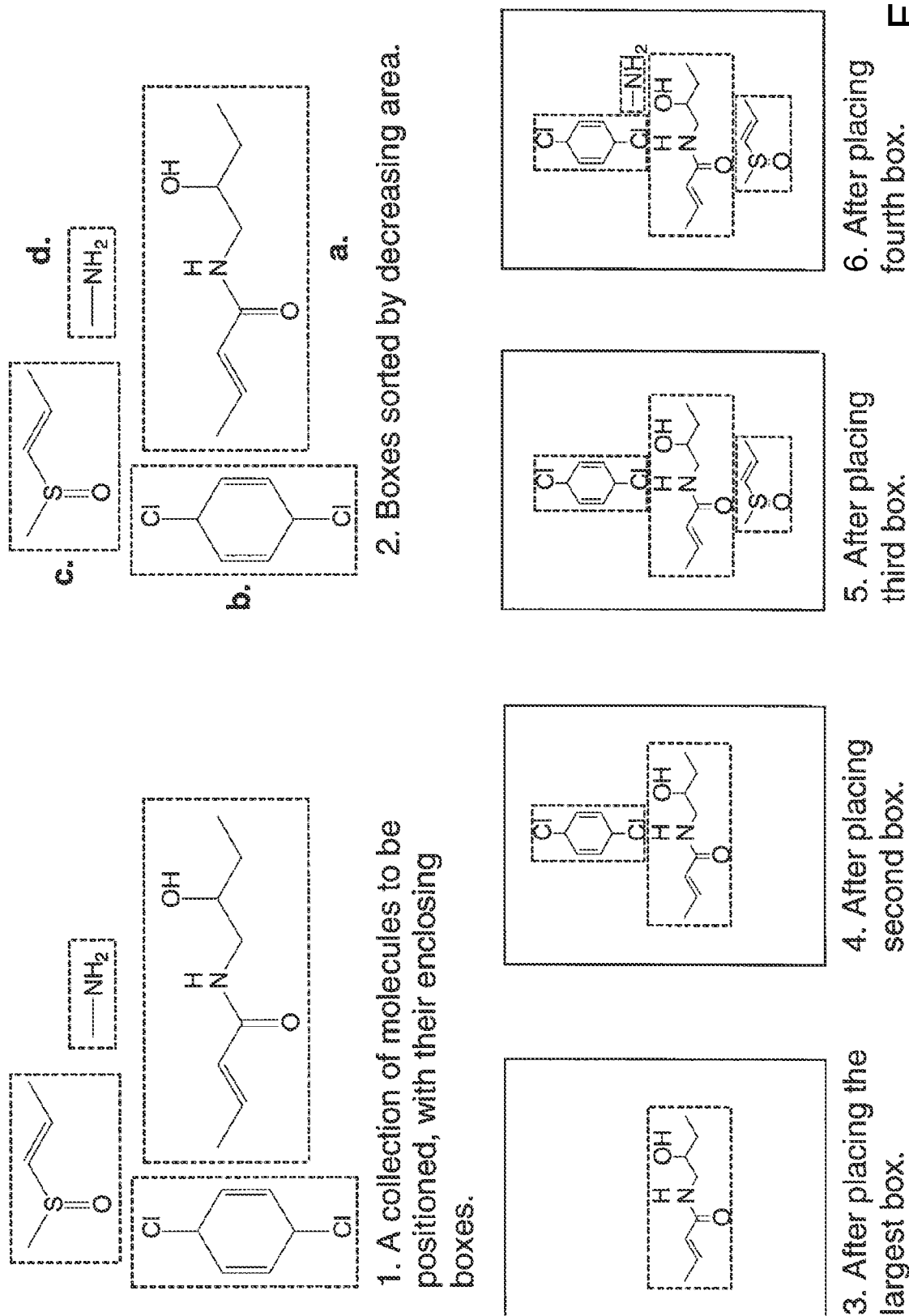


FIG. 13

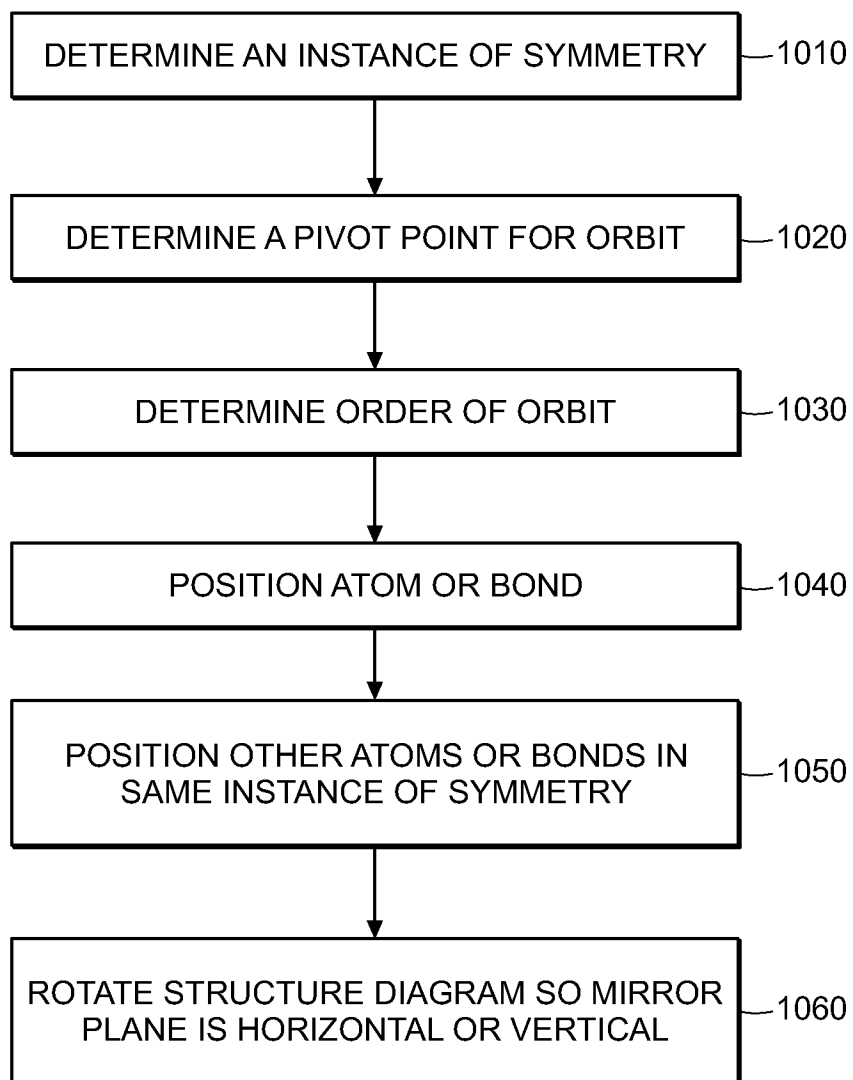


FIG. 14

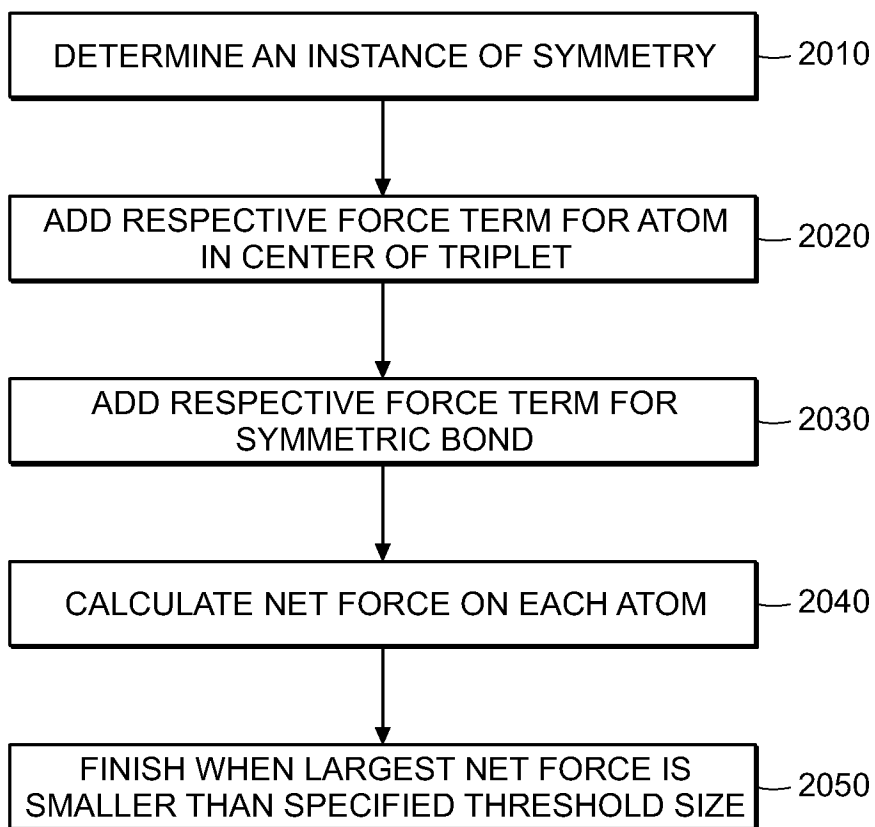


FIG. 15

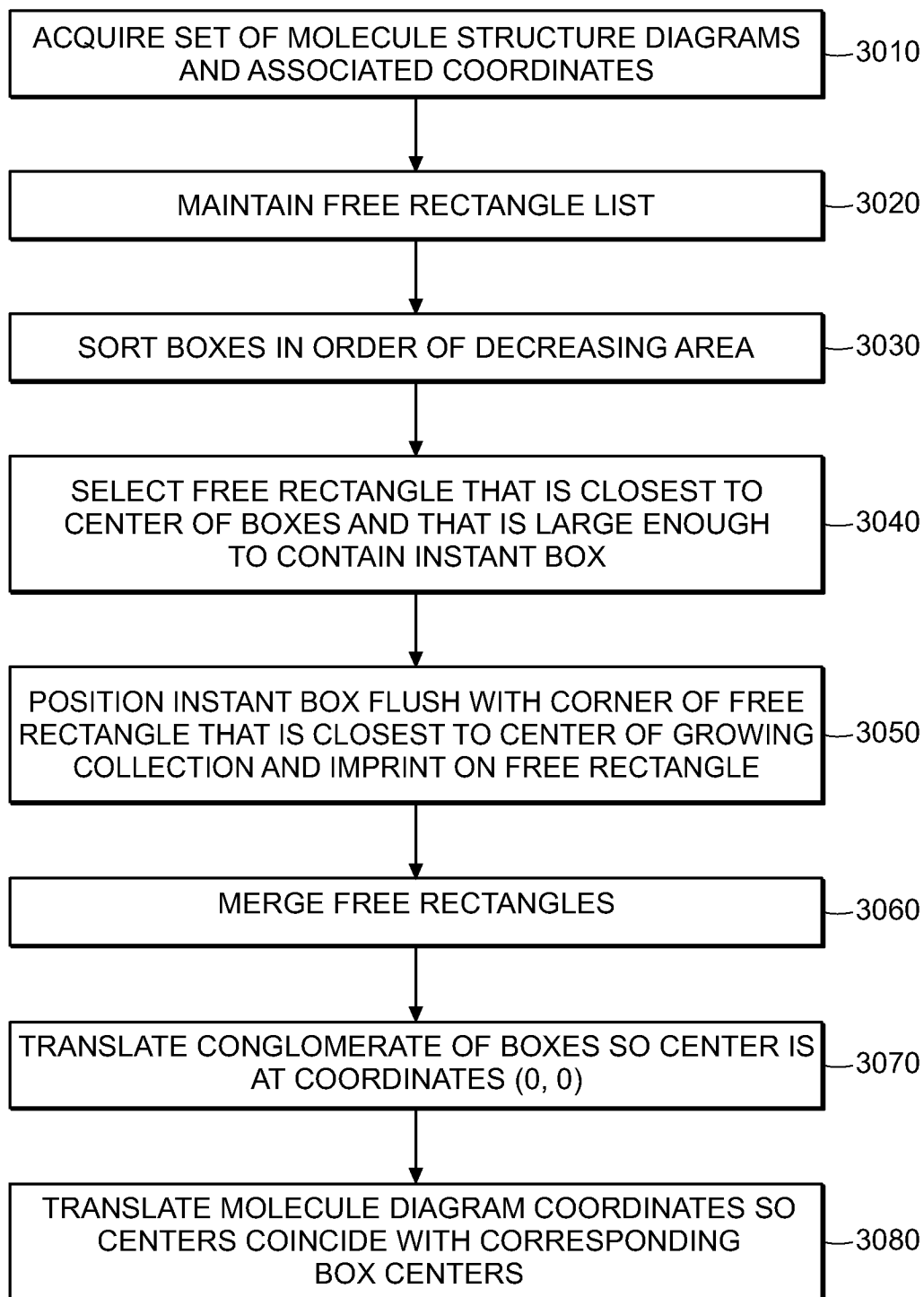


FIG. 16